



**XXXX Forest Management Unit
Compartment Review Presentation
Compartment #135 Entry Year: 2012
Compartment Acreage: 713 County: Iron**

Revision Date: 6/16/2010

Stand Examiner: Cynthia Cooper

Legal Description: T44N, R34W, Sections 6, 8, 16, 17

Identified Planning Goals ('Management Area' or 'RMU', if applicable):

Management Goals: Improve and maintain hardwood and aspen timber types.

Soil and Topography: Lowlands with mucky soils to fairly flat terrain with sandy loam soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership used for timber production with access through corporate timber lands.

Unique, Natural Features: Paint River.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: The Paint River runs along the western boundary of this compartment.

Watershed and Fisheries Considerations: Paint River.

Wildlife Habitat Considerations: This compartment is relatively small in acres (713) but is important for north-south movement of wildlife. It lies between the Cable Lake-Porter Lake and Hemlock Rapids deeryards. State lands are almost completely surrounded by Plum Creek Timber Company lands that have been converted to plantations. If all proposed stands are harvested, many seasonal migrants will be affected, as will local residents with larger home ranges. The only travel corridor with significant overhead cover will be eliminated. The quality of Barnett's Creek will also be further diminished from a wildlife standpoint. Access to Stand 1 is questionable because of wet conditions surrounding it. Even if access is possible, this stand is the largest piece of winter cover left in this compartment and provides a significant amount of cover for animals moving north and south along the river. Wildlife would propose forgoing further harvest in this compartment until the Plum Creek Timber Company lands recover to the point that they provide minimal cover for seasonal movements.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamee Formation subcrops below the glacial drift. There is not a current economic use for the Michigamee. The Iron river iron mines are located seven miles to the south. This compartment has not previously been leased for metallic exploration, but iron explorations were located in this area. The nearest gravel pit is located four miles to the southeast. There is no economic oil and gas production in the UP.
Text

Vehicle Access: Good, but entirely through corporate timber lands.

Survey Needs: Corners will be needed in section 6.

Recreational Facilities and Opportunities: Access prohibitive.

Fire Protection:

Additional Compartment Information: None.

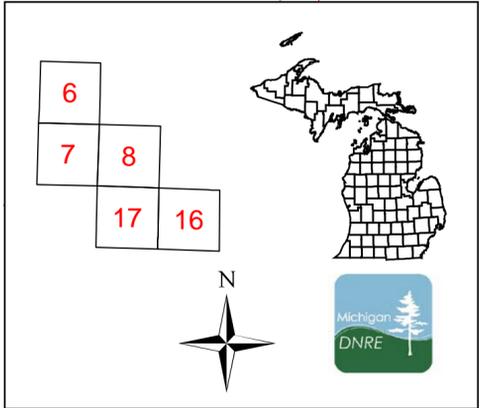
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Cover Type & Treatment Map

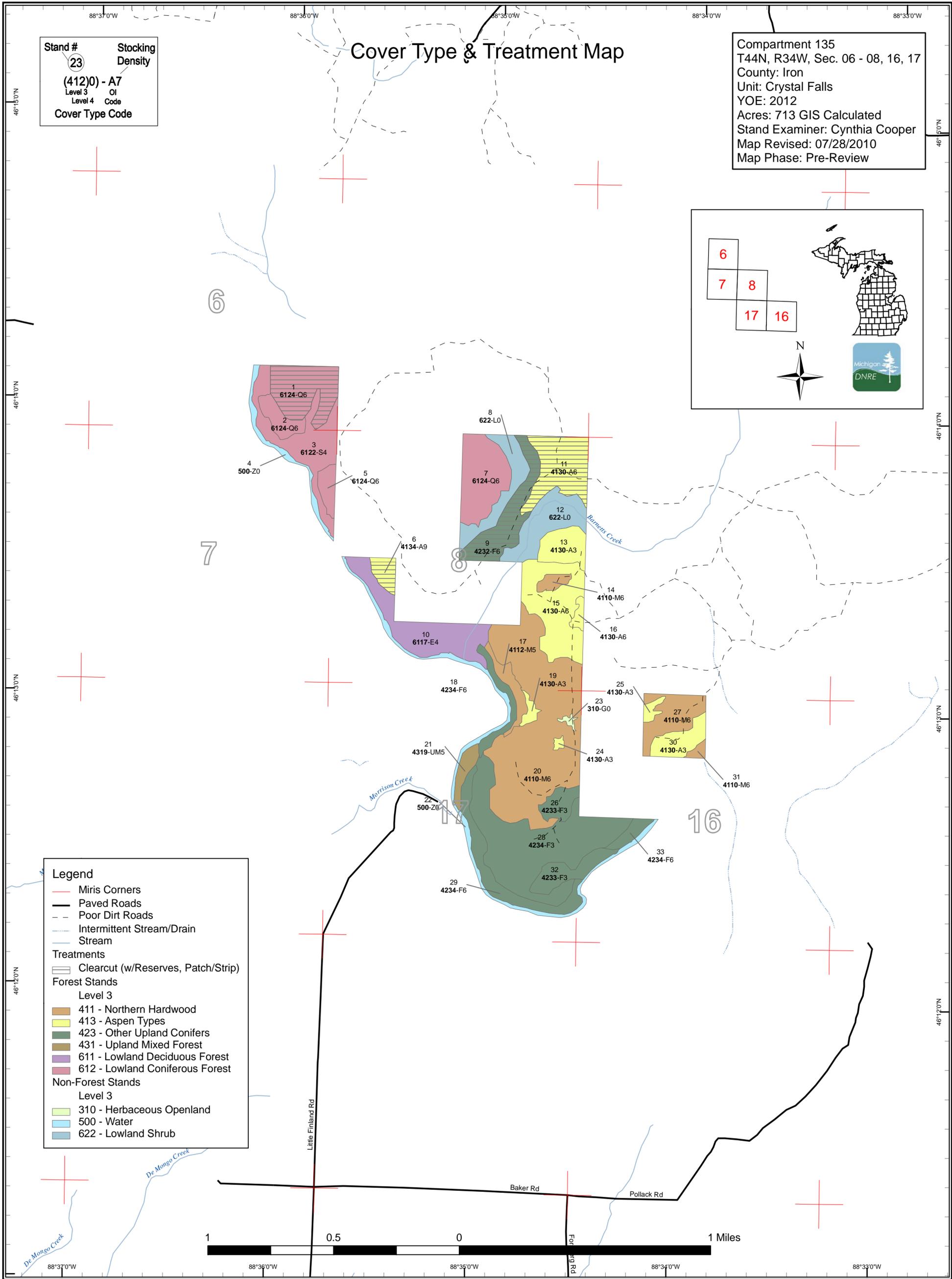
Compartment 135
 T44N, R34W, Sec. 06 - 08, 16, 17
 County: Iron
 Unit: Crystal Falls
 YOE: 2012
 Acres: 713 GIS Calculated
 Stand Examiner: Cynthia Cooper
 Map Revised: 07/28/2010
 Map Phase: Pre-Review

Stand #
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

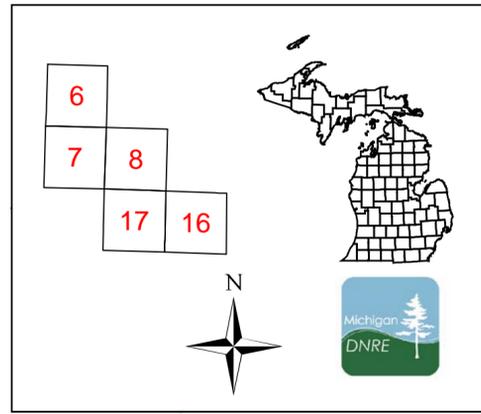
- Miris Corners
- Paved Roads
- - - Poor Dirt Roads
- - - Intermittent Stream/Drain
- Stream
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

Stand #
 (412)0 - A7
 Level 3 OI
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Compartment 135
 T44N, R34W, Sec. 06 - 08, 16, 17
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Legend

- Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas**
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Dedicated Special Conservation Areas**
- Deer Wintering Areas
- Cold Water Streams
- Wild & Scenic Rivers (USFS Lands)
- Boat Access Sites
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
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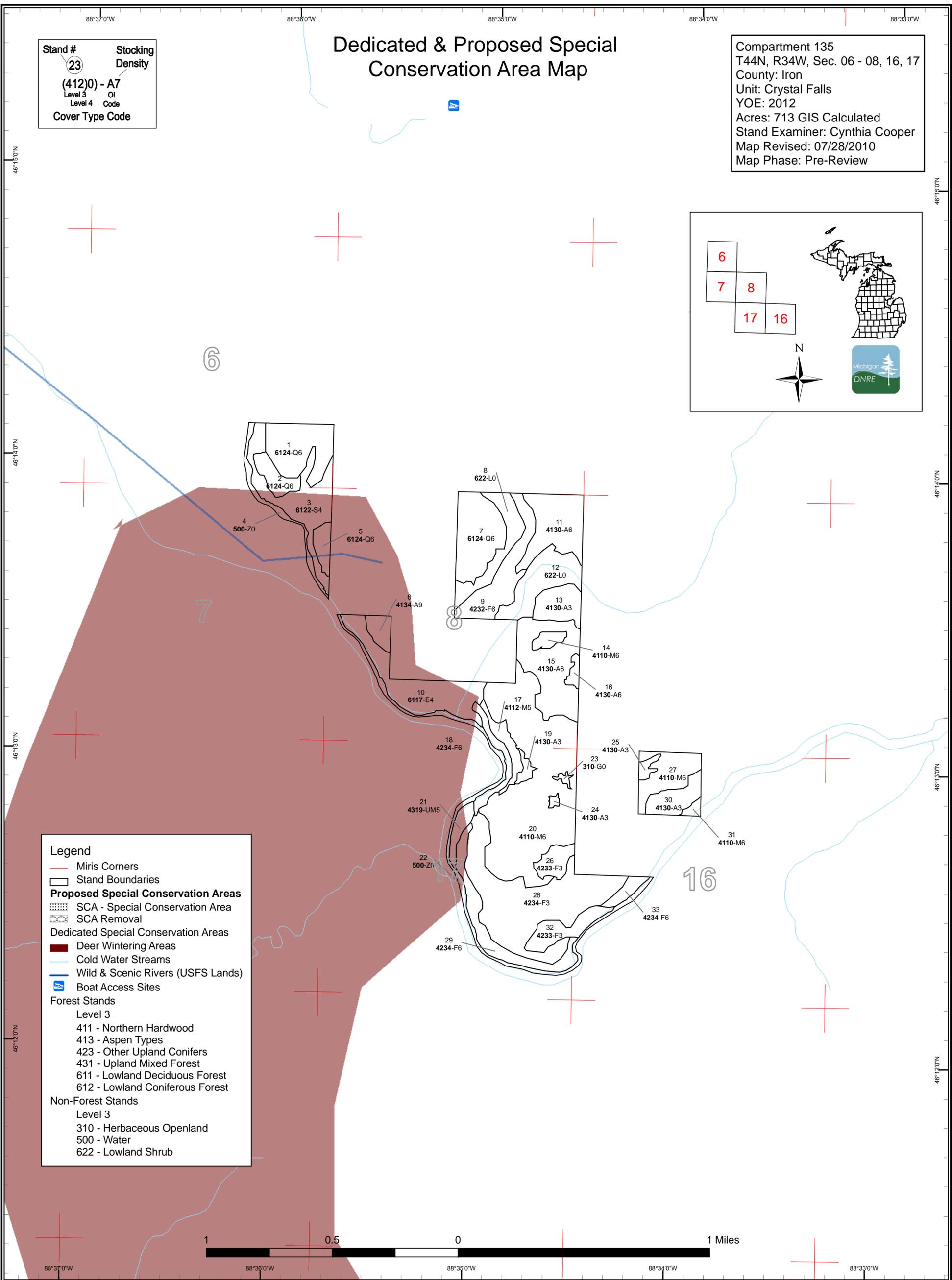
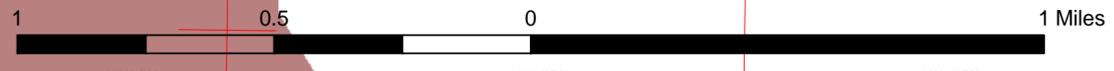


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Aspen	0	19	20	0	43	0	0	0	0	33	0	7	0	0	0	121
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	0	35	0	48	0	0	0	83
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	41
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	37
Northern Hardwood	0	0	0	0	0	0	0	0	0	165	0	0	0	0	0	165
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7
Upland Spruce/Fir	0	0	95	15	0	0	0	0	0	62	0	5	0	0	0	178
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Total	80	19	116	15	43	0	0	0	0	301	0	139	0	0	0	713



Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2012

Compartment 135
Total Compartment Acres: 712.7

Acres by Treatment Type

Commercial Harvest - 99	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	38	0	0	0	0	0	38
Lowland Conifers	32	0	0	0	0	0	32
Upland Spruce/Fir	29	0	0	0	0	0	29
Total	99	0	0	0	0	0	99

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1 12135001-Cut	31.8	6124 - Lowland Spruce-Fir	High Density Pole	100	Harvest	Clearcut with Reserves	Lowland Spruce-Fir	Cmpt. Review Proposal

Prescription Clear cut reserving all pine and spruce/fir under 4" at the stump. Will need to be winter cut due to wet soils.

Specs:

Other Access from existing road to the east.

Comments:

Next Regeneration survey.

Steps:

6 12135006-Cut	5.8	4134 - Aspen, Spruce/Fir	High Density Log	100	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Clear cut reserving spruce/fir 2" and less DBH. May need to winter cut depending on soil moisture.

Specs:

Other Access from existing road to the east.

Comments:

Next Regeneration survey.

Steps:

9 12135009-Cut	28.8	42320 - Upland Spruce	High Density Pole	83	Harvest	Clearcut with Reserves	Upland Spruce/Fir	Cmpt. Review Proposal
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Prescription Clear cut reserving spruce/fir 2" dbh and less.

Specs:

Other May be accessed through north or east.

Comments:

Next regeneration survey.

Steps:

11 12135011-Cut	32.7	4130 - Aspen	High Density Pole	83	Harvest	Clearcut with Reserves	Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Clear cut reserving spruce/fir 2" and less DBH. A portion of the stand in the north east corner may also be used as a reserve area.

Specs:

Other May be accessed from the north or east on existing road.

Comments:

Next Regeneration survey.

Steps:

**Total Treatment
Acreage Proposed: 99.1**

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Stand	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 135	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
1	6124 - Lowland Spruce-Fir	High Density Pole	31.8	100			
2	6124 - Lowland Spruce-Fir	High Density Pole	9.7	100			
3	6122 - Black Spruce	Low Density Pole	36.9	103			
5	6124 - Lowland Spruce-Fir	High Density Pole	6.9	100			
6	4134 - Aspen, Spruce/Fir	High Density Log	6.9	100			
7	6124 - Lowland Spruce-Fir	High Density Pole	34.8	85			
9	42320 - Upland Spruce	High Density Pole	28.8	83			
10	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	41.5	100			
11	4130 - Aspen	High Density Pole	32.7	83			
13	4130 - Aspen	High Density Sapling	15.6	6			
14	4110 - Sugar Maple Association	High Density Pole	4.3	80	81-110	MIXED UPLAND DECIDUOUS WITH CONIFER.	
15	4130 - Aspen	High Density Pole	43.1	32	81-110		
16	4130 - Aspen	High Density Pole	3.0	6			
17	4112 - Maple, Beech, Cherry Association	Medium Density Pole	8.7	80	51-80		
18	42340 - Upland Spruce/Fir	High Density Pole	8.9	80			
19	4130 - Aspen	High Density Sapling	3.0	14			
20	4110 - Sugar Maple Association	High Density Pole	129.5	80	81-110		
21	4319 - Mixed Upland Forest	Medium Density Pole	6.7	80			



Stand	Crystal Falls Mgt. Unit		5 – Forested Stands			Compartment: 135	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
24	4130 - Aspen	High Density Sapling	1.1	14			
25	4130 - Aspen	High Density Sapling	2.9	14			
26	42330 - Upland Fir	High Density Sapling	9.2	15		DENSE SAPLINGS IN AN AREA PREVIOUSLY LISTED AS GRASS.	
27	4110 - Sugar Maple Association	High Density Pole	20.7	80	81-110		
28	42340 - Upland Spruce/Fir	High Density Sapling	86.2	14			
29	42340 - Upland Spruce/Fir	High Density Pole	24.2	80			
30	4130 - Aspen	High Density Sapling	13.3	14			
31	4110 - Sugar Maple Association	High Density Pole	2.2	80	81-110		
32	42330 - Upland Fir	High Density Sapling	14.9	29			
33	42340 - Upland Spruce/Fir	High Density Pole	5.5	103			





Stand	Cover Type	Acres	Gen Cmts:
4	50 - Water	8.1	
8	6220 - Alder/willow	19.2	
12	6229 - Mixed lowland shrub	28.3	
22	50 - Water	23.1	
23	3102 - Grass	1.2	



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Inventory Method: IFMAP

Stand	SCA Type	SCA Name	Acres	Comments
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8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.